

***Drilling/Sampling Plan for Subsurface Potential PCB Contamination***  
**Mahoningside Power Plant Site**  
**Warren, Trumbull County, Ohio**

US EPA RECORDS CENTER REGION 5



584442

**Drill Locations/Accessibility:**

U.S. EPA has tentatively identified up to 20 locations which will be selected as drilling points. Determining factors utilized to select locations include, but are not limited to; ability to maneuver the drill rig into position, known locations of contamination, suspected areas of contamination, safety of drill rig placement, and physical observations of the site. Of the proposed sample locations, 6 to 7 have been selected from the surface area surrounding the existing facility structure. Two of these will be to the west, two to the south, two to the east of the facility structure, and one to the north (if possible). The remaining proposed locations will be augured/cored through the cement pad in the former facility's basement.

**Drilling Procedures:**

The drill rig will be set up and checked for safety by the operator. It is anticipated that the drilling operations will be two-phased. The first several feet of material under the concrete will be augured until refusal. Once refusal has occurred, then the remaining section of material to be extracted will be cored. This will occur to the sandstone underlaying the shale or to a maximum depth below the concrete surface of twenty feet. The core will then be removed for sampling preparation.

**Sampling of Cuttings/Cores:**

The auguring of the first layer in each drilling location is expected to be conducted for the first three to five feet of each hole. The cuttings from auguring activities will be collected from both the top ½ and bottom ½ of the auguring core. These cuttings will each be prepared separately as samples and sent to an independent laboratory for PCB analysis. The core retained will also be processed and split into definitive sections for sample collection. There will be four samples removed from each core. The first sample section will be the top two feet of the core. The second section will be the next three feet of the core. The two final sections, continuing down the core profile, will each be five feet in length. Each section of rock from the core (as listed above) will be pulverized by START and composited. A four-ounce sample will be collected of this material, for each core section, and sent to an independent laboratory for PCB analysis. START will log the physical appearance, rock type, odors, and any other core information deemed necessary. The soil samples for the 6 to 7 drill locations outside of the basement area will be utilized primarily for field screening for the presence of PCBs. At the discretion of the U.S. EPA, samples from these areas may be sent for laboratory analysis of PCB content.

**ERRS REGION V  
WORK PLAN  
Contract No. 68-S5-9801**

Site Name: Mahoning River Site

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Preplanning Meeting Date: Oct 4, 2000 Attendees: Eric Bowman, Mark Durno

**PART 1. SITE INFORMATION AND BACKGROUND**

Task Order No.: 9801-05- EPA Site No.: \_\_\_\_\_

Site Address: 650 Summit Street N.W., WARREN, Ohio

EPA FOSC: MARK Durno Office No.: (440) 250-1743

Site Telephone No.: \_\_\_\_\_

**Site Background and Description:**

A. Type of Site: PCB contamination in and around the basement/foundation of a former electrical power generation plant

B. History of Site and Type of Activities: Developed since the early 1960's as an electric power generation plant. Operating under 4-6 names until the early 1960's. Also Electric bulbs and lamps were manufactured here during early years of site operations

C. Wastes on Site (chemical names, amount of spill, no. of drums, no./vol. tanks, no./size lagoons, etc.):

PCB's, Levels of Barium that may exceed TCLP levels for hazardous waste

D. Description of Site Physical Features: (acreage, buildings, surrounding population, etc.):

The site is approx 6.58 acres, with all large structures removed. However the basement power plant and boiler house remain. The site is bordered by the Mahoning River and city parks

**E. Site Facilities:**

Electricity, running water, telephone: Electricity, Telephone

**PART 2. SCOPE OF WORK AND APPROACH****2.1 Tasks**

Mobilization: Mob crew and equipment, spot/set office trailer for EPA  
provide Copier, and fax

**Site Logistics:**

Entry: \_\_\_\_\_

Security: Utilize local security company to perform security during NON-working hours

Office Trailer: Rent existing trailer from McCabe Engineering, Rent 2<sup>nd</sup> trailer for EPA

Decon Area: Dry Decon w/ Trash Cans and disposable PPE

Other: \_\_\_\_\_

Initial Containment/Control: Take over operation of Existing treatment system

Primary Cleanup Activities: • Collect 2 composite sample from Staged Rolloffs  
Analyze for PCB, TCLP Metals, Total Mercury. Collect Samples from Sumps  
Analyze for PCB's (TCLP Metals), Remove sediment & clean 42" discharge  
line to River, dewater sediment for disposal. Jet/Vac Sump and  
floor drains throughout basement, dewater sediment for disposal.  
Over pack 5 gal bucket containing Mercury/sediment. Take over  
Water treatment plant. Conduct an extent of contamination study  
to determine extent of PCB's. Remove/Remediate PCB contamination  
pending results of the study.

Onsite Treatment: Take over operation of existing WWTP. Evaluate  
upgrades to plant to improve operations. Also winterize system.  
The system will be needed to not only handle grow

Onsite Waste Staging/Management: Currently 40 rolloffs on site w/ sediment  
Future waste recovered will need to be

Waste Transportation and Disposal: Existing full boxes at site commencement  
will most likely be transported by the box owners McCabe Engineering  
to Mabel City, NY.

Sampling and Analysis: Collect samples from rolloffs, sumps initially  
this will be followed by an extent of investigation study.

Reporting: EPA Form 1900-55's, CERCLA Offsite Disposal Report, Contractor's Final Site  
Report, Site Safety Plan, Daily Work Report, Site Progress Report, Special Reports (as  
specified).

## 2.2 Key Personnel and Responsibilities

EQ Response Coordinator: John Mullane Office No.: 800/500-0575

Lead Team Contractor: \_\_\_\_\_ Office No.: \_\_\_\_\_

Response Manager: ERIC BOWMAN

Health and Safety Officer - EQ: Gene Koesters

Health and Safety Officer - Subcontractor: \_\_\_\_\_

QA/QC Officer - EQ: Julie Fields

QA/QC Officer - Subcontractor: \_\_\_\_\_

### 2.3 Resource Requirements

A. Personnel, Equipment, Materials, and Other Direct Costs (see Attachment No. 1)

## PART 3. SCHEDULE

3.1 See Figure 1 for timeline chart

### 3.2 Milestones

<u>Task</u>	<u>Start Date</u>	<u>Completion Date</u>
Initial D.O. Notification:	_____	_____
Preplanning Visit:	<u>10/4/2001</u>	_____
Receipt of D.O.:	_____	_____
Planning and Resource Coordination:	_____	_____
Mobilization:	<u>10/9</u>	_____
Cleanup Activity:	<u>10/10</u>	_____
Waste Sampling/Profiling:	_____	_____
Drum Removal/Staging:	_____	_____
Waste T&D:	_____	_____
Demobilization:	_____	_____

**PART 4. BUDGET ALLOCATION**

A. D.O. Ceiling: \$ \_\_\_\_\_  
Estimated Labor: \$ \_\_\_\_\_  
Estimated Equipment: \$ \_\_\_\_\_  
Estimated Material: \$ \_\_\_\_\_  
Estimated T&D and Analysis: \$ \_\_\_\_\_

**PART 5. HEALTH AND SAFETY**

Special Safety Considerations: demolition site with numerous holes and pits  
that may be covered over, but still have void space

PPE Requirements: Modified D, and Level C

**Site Safety Plan (SSP) Development:**

- Draft SSP submitted <sup>by EQ</sup> ~~to~~ <sup>to</sup> E&E on 10/4/2000 \_\_\_\_\_;

Date: \_\_\_\_\_

- Final SSP Plan completed by \_\_\_\_\_;

Date: \_\_\_\_\_

**PART 6. SAMPLING, ANALYSIS, AND QA/QC****A. Site Characterization S & A:**

Sampling & Analysis: Will conduct an extent of contamination study  
to determine further site activities

QA/QC Requirements: QA/QC Level II

## B. Confirmation S&amp;A:

Sampling &amp; Analysis: \_\_\_\_\_

QA/QC Requirements: \_\_\_\_\_

C. Waste Management/Profiling S&A: Collection (2) composite Samples**PART 7. REGULATORY COMPLIANCE**

Site Permits: \_\_\_\_\_

T&amp;D Status: \_\_\_\_\_

Other: \_\_\_\_\_

\_\_\_\_\_  
FOSC Review/Approval\_\_\_\_\_  
Date

## Month/Day/Year

EPA Contract No. 68-S5-9801, Task Order No. 006

10/02/00 16:14 0513 825 9728 EQMI CINCINNATI 008

**ATTACHMENT 1**  
**WORK PLAN RESOURCE LIST**  
**EPA Contract No. 68-S5-9801**  
**Task Order No. \_\_\_\_**

### Site

**PERSONNEL (CLIN)**  
**On-Site Labor**

Rate/ST

Rate/OT

[illegible][illegible]

## Off-Site Labor

Rate/ST

Rate/OT

\_\_\_\_\_ (\_\_\_\_\_)

\_\_\_\_\_ (\_\_\_\_\_)

\_\_\_\_\_ (\_\_\_\_\_)

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### EQUIPMENT (CLIN)

**Hourly Rate**

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**OTHER DIRECT COSTS (Materials, Rental Equipment, Services, Subs)****Price/Unit Price**

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**OTHER DIRECT COSTS (Travel)****Price/Unit Price**

Lodging

\$\_\_\_\_\_/day

Per Diem

\$\_\_\_\_\_/day

\* All items provided by EQ unless denoted with asterisk; then item provided by team subcontractor

† Denotes provisional rate item.